

STATUS OF CLAIMS

1-5 (canceled)

6. (previously presented) A method for monitoring biological micro-structure activity which produces detectable signals characterizing events, comprising the steps of estimating the fundamental frequency of the occurrence of events from the detectable signals, without detecting the occurrence of individual events, wherein the estimating step includes an autocorrelation operation.

7. (original) The method of claim 6 further including one of the following steps:

estimating the fundamental frequency based upon a lower autocorrelation value disposed among several adjacent peaks;

treating "unvoiced" segments of the detectable signal as undecided as to pitch and estimating the pitch of those segments through subsequent processing;

seeking to estimate the fundamental frequency in the range of .25 to 5 Hertz;

utilizing an analysis window duration in the range of several seconds;

performing a pre-processing operation which has the effect of increasing the effective duration of an event; and

utilizing an autocorrelation process which performs segmented autocorrelation.